This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1 Claim 1 (previously presented): A communications method, the
- 2 method comprising:
- 3 operating an access node to receive a data message directed
- 4 to an end node; and
- 5 operating the access node to determine a paging requirement
- 6 using packet classification based on a header field included in
- 7 said data message.
- 1 Claim 2 (previously presented): The method of claim 1,
- 2 wherein said paging requirement is determined as a function
- 3 of at least one of a quality of service indicator, a type
- 4 indicator, a source indicator, and a destination indicator; and
- 5 wherein said access node is a base station, the method
- 6 further comprising:
- 7 operating said access node to allocate a paging
- 8 transmission resource for transmitting a page as a function of
- 9 the determined paging requirement, at least some of said
- 10 plurality of paging requests having different determined paging
- 11 requirements resulting in different allocation of access node
- 12 resources.
- 1 Claim 3 (previously presented): The method of claim 2, further
- 2 comprising:
- 3 operating said access node to transmit a page over a
- 4 wireless communications link using the allocated paging
- 5 transmission resource.
- 1 Claim 4 (currently amended): The method of claim 3, wherein
- 2 said step of transmitting a page includes incorporating, into
- 3 said page, information indicating a state of device operation-

- 4 in which a device to which said page is $directed_{\tau}$ is to operate
- 5 after receiving said page.
- 1 Claim 5 (previously presented): The method of claim 2, further
- 2 comprising:
- 3 operating said access node to communicate a paging signal
- 4 to a second node, indicating allocation of a paging transmission
- 5 resource for use in transmitting a page corresponding to said
- 6 received data message.
- 1 Claim 6 (previously presented): The method of claim 1, further
- 2 comprising:
- 3 operating said access node to communicate said determined
- 4 paging requirement to a second node in a paging request message.
- 1 Claim 7 (currently amended): The method of claim 6, wherein
- 2 said page paging request message includes at least a portion of
- 3 said received data message.
- 1 Claim 8 (original): The method of claim 7, wherein said
- 2 determined paging requirement, indicated in said paging request
- 3 message, is that said portion be included in a page.
- 1 Claim 9 (original): The method of claim 6, wherein said
- 2 determined paging requirement, indicated in said paging request
- 3 message, is that a page be acknowledged.
- 1 Claim 10 (original): The method of claim 6, wherein said
- 2 determined paging requirement, indicated in said paging request
- 3 message, is a quality of service.
- 1 Claim 11 (original): The method of claim 10, wherein said
- 2 quality of service includes a page transmission timing
- 3 constraint.

- 1 Claim 12 (original): The method of claim 10, wherein said
- 2 quality of service is one of a plurality of levels.
- 1 Claim 13 (original): The method of claim 10, wherein said
- 2 quality of service requires that a page be transmitted multiple
- 3 times.
- 1 Claim 14 (original): The method of claim 10, wherein said
- 2 quality of service requires retransmission of a page at least
- 3 once in the absence of an acknowledgment.
- 1 Claim 15 (currently amended): The method of claim 14, further
- 2 comprising:
- 3 operating the second node to cause said re-transmission
- 4 retransmission of said page to be into a geographic area larger
- 5 than an initial transmission area of said page.
- 1 Claim 16 (currently amended): The method of claim 6,
- wherein said determined paging requirement, indicated in
- 3 said paging request message, is a quality of service level; and
- 4 wherein said page paging request message includes paging
- 5 resource allocation information indicating a fraction of a
- 6 paging resource to be allocated by said second node to pages
- 7 having said quality of service level, the method further
- 8 comprising:
- 9 operating the second node to allocate said fraction of said
- 10 paging resource to pages having a quality of service level
- 11 indicated in said paging request message.
- 1 Claim 17 (original): The method of claim 6, further comprising:
- 2 operating said second node to allocate a paging
- 3 transmission resource for transmitting a page, as a function of
- 4 said determined paging requirement, indicated in said paging
- 5 request message.

- 1 Claim 18 (original): The method of claim 17, further
- 2 comprising:
- 3 operating said second node to transmit a page using the
- 4 allocated paging transmission resource.
- 1 Claim 19 (previously presented): The method of claim 17,
- 2 further comprising:
- 3 operating said second node to communicate a paging signal
- 4 to a third node, indicating allocation of a paging transmission
- 5 resource for use in transmitting a page corresponding to said
- 6 data message.

Claims 20-26 (canceled)

- 1 Claim 27 (previously presented): A communications system
- 2 comprising:
- 3 a base station including:
- 4 i) means for receiving a data message directed to an end node;
- 5 and
- 6 ii) means for determining a paging requirement using packet
- 7 classification based on a header field included in said data
- 8 message, said paging requirement being determined as a function
- 9 of at least one of a quality of service indicator, a type
- 10 indicator, a source indicator, and a destination indicator.
 - 1 Claim 28 (previously presented): The system of claim 27,
- 2 wherein said base station, further comprises:
- 3 means for allocating a paging transmission resource for
- 4 transmitting a page as a function of a determined paging
- 5 requirement.
- 1 Claim 29 (previously presented): The system of claim 28,
- 2 wherein said base station further includes a radio transmitter

- 3 for transmitting a page using the allocated paging transmission
- 4 resource.
- 1 Claim 30 (previously presented): The system of claim 29,
- 2 wherein said base station further includes:
- 3 means for generating a paging request message including
- 4 information indicating said determined paging requirement; and
- 5 means for transmitting said paging request message to
- 6 another node.
- 1 Claim 31 (currently amended): The system of claim 30, wherein
- 2 said page paging request message includes at least a portion of
- 3 said received data message and wherein said determined paging
- 4 requirement, indicated in said paging request message, is that
- 5 said portion be included in a page.
- 1 Claim 32 (original): The system of claim 30, wherein said
- 2 determined paging requirement, indicated in said paging request
- 3 message, is that a page be acknowledged.
- 1 Claim 33 (original): The system of claim 30, wherein said
- 2 determined paging requirement, indicated in said paging request
- 3 message, is a quality of service requirement.
- 1 Claim 34 (original): The system of claim 30, further
- 2 comprising:
- 3 a second node, said second node including:
- 4 i) means for receiving said paging request message;
- 5 ii) means for allocating at least one paging resource as a
- 6 function of paging requirement information included in a
- 7 received paging request message; and
- 8 iii) means for transmitting a page to a mobile node using
- 9 the at least one allocated paging resource.

- 1 Claim 35 (previously presented): A communications method, the
- 2 method comprising:
- 3 servicing a plurality of different paging requests by
- 4 allocating different amounts of a paging transmission resource
- 5 to different paging requests, said paging transmission resource
- 6 being one of transmission power, bandwidth, frequency, and
- 7 transmission time slots; and
- 8 transmitting a page corresponding to one of said plurality
- 9 of different paging requests over a wireless communication link
- 10 using the amount of said paging transmission resource allocated
- 11 to said one of said plurality of different paging requests.
- 1 Claim 36 (previously presented): The method of claim 35,
- 2 wherein said servicing and transmitting steps are performed by a
- 3 base station.
- 1 Claim 37 (previously presented): The method of claim 35,
- 2 wherein said paging transmission resource is bandwidth.
- 1 Claim 38 (previously presented): The method of claim 35,
- 2 wherein said paging transmission resource is frequency.
- 1 Claim 39 (currently amended): The method of claim 35, wherein
- 2 said paging transmission resource is timeslots time slots.
- 1 Claim 40 (previously presented): The method of claim 35,
- 2 wherein said paging transmission resource is transmission power.
- 1 Claim 41 (previously presented): The method of claim 35,
- 2 wherein allocating different amounts of a paging transmission
- 3 resource includes allocating a minimum fraction of paging
- 4 channel capacity to a group of paging requests having a common
- 5 quality of service indicator.

- 1 Claim 42 (previously presented): A method of operating an
- 2 access node, the method comprising:
- allocating a minimum fraction of paging channel capacity to
- 4 a group of paging requests having a common quality of service
- 5 indicator; and
- transmitting a page corresponding to one of the paging
- 7 reguests in said group over a wireless communication link.
- 1 Claim 43 (previously presented): A method of operating an access
- 2 node, the method comprising:
- 3 determining an ordering in which pages corresponding to a
- 4 plurality of paging requests are transmitted based on a time
- 5 constraint requirement associated with one of said plurality of
- 6 paging requests; and
- 7 transmitting a page corresponding to said one of the paging
- 8 requests over a wireless communications link.
- 1 Claim 44 (previously presented): The method of claim 43, wherein
- 2 said time constraint requirement is a maximum latency.
- 1 Claim 45 (previously presented): The method of claim 43,
- 2 wherein said step of transmitting a page includes transmitting
- 3 said page corresponding to said one of the paging requests prior
- 4 to transmitting a page corresponding to a previously received
- 5 paging request.